



# A504 DSP

## 4-CHANNEL AMPLIFIER WITH DSP

→||← Ultra-Thin Design

Matrix

4Ω 4Ω Minimum Imp.

DSP

The A504DSP combines a lightweight, 4 x 500W (2 x 1000W) amplifier, with a powerful DSP engine that can be configured to suit a wide range of tasks, without the need for additional equipment, to drive a wide range of loudspeaker systems. The close integration of processing and amplification allows the DSP to monitor and better adapt to amplifier behavior, making dynamics processing far more accurate and effective than that typically achieved with separate components.

### Product Type

Class D Amplifier with DSP

### Frequency Response

20Hz - 20kHz (+0 / -1dB)

### Amplifier Technology

Class D

### Number of Amplifier Channels

4 Channels

### Amplifier Power - Stereo 8Ω

4 x 250W

### Amplifier Power - Stereo 4Ω

4 x 500W

### Amplifier Power - Bridge 8Ω

2 x 1000W

### Amplifier Gain

34dB±0.5dB

### Speaker Output

4Ω - 16Ω

### Damping Factor

>180

### THD+N

<0.15%

### SNR (Signal to Noise Ratio)

>95dB

### Crosstalk

>50dB

### Input Sensitivity

0.9V - 1.1V (+0 / -1dBv)

### Input Impedance

Balanced: 20kΩ | Unbalanced: 10kΩ

### DSP Technology

4 IN x 4 OUT - 32bit | 192kHz DSP

### Latency

0.66ms

### DSP Adjustable Parameters

PEQ, HPF, LPF, HSF, LSF, Compressor, Gate, Level, Delay, Polarity, Mute

### Delay Adjustment

62.4ms / 21.42m per Channel

### Control Type

On the Amplifier Encoder and LCD | Via USB and Supplied Software "A504 DSP Controller"

### Audio Signal Inputs

Analog Audio

### Input Connectors

4 x Neutrik XLR

### Audio Signal Outputs

None

### Output Connectors

None

### Speakers Output Connectors

4 x Neutrik NL4

### Protections

Full short circuit, open circuit, thermal, ultrasonic, and RF protection stable into reactive or mismatched loads, turn ON/OFF, muting, tried crowbar

### Operating Temperature Range

0°C - 40°C

### Cooling Type

Speed Controlled Fan

### Power Supply

Switching Mode Power Supply (SMPS)

### Power Input

AC 110V - 120V | AC 220V - 240V 50Hz/60Hz ±10%

### Mains Connector

Standard IEC socket

### Power Consumption

1100W

### Fittings

1U 19" Rack

### Dimensions (WxHxD)

483 x 44 x 290mm (19 x 1.73 x 11.4 in)

### Net Weight

6kg (13.2lb)

### Shipping Weight

7.2kg (2.2lb)